

PTO/SB/08A (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number		09/654,542
	Filing Date		9/1/2000
	First Named Inventor:		Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.		GROUP: 2876
Sheet	1	of	14
Attorney Docket Number			ULT-005-2C3C

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222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	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)	Application Number	09/654,542
	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 3 of 14	Attorney Docket Number	ULT-005-2C3C

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KOF	C024	US-4,592,042	5/1/1986	Lemelson et al.	
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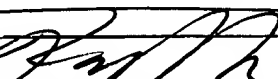
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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Application Number		09/654,542	
			Filing Date		9/1/2000	
			First Named Inventor:		Malcolm G. Smith, Sr.	
			Examiner: Frech, Karl D.		GROUP: 2876	
Sheet	4	of	14	Attorney Docket Number		ULT-005-2C3C
U.S. PATENT DOCUMENTS						
Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2,3,4,5,6,7}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	
1449A	C037	US-4,756,967	7/1/1988	Hashimoto et al.		
	C038	US-4,777,540	10/11/1988	McCoy		
	C039	US-4,780,604	10/1988	Hasegawa et al.		
	C040	US-4,786,564	11/22/1988	Chen et al.		
	C041	US-4,791,283	12/13/1988	Burkhardt		
	C042	US-4,812,633	3/1989	Vogelgesang et al.		
	C043	US-4,826,772	05/1989	Meathrel		
	C044	US-4,833,310	05/23/1989	Shimamura et al.		
	C045	US-4,851,610	07/25/1989	LeBlanc et al.		
	C046	US-4,868,373	09/1989	Opheij et al.		
	C047	US-4,877,488	10/1989	Cody et al.		
	C048	US-4,889,755	12/1989	Charbonneau		
	FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Cntry Code ³ Number ⁴ Kind Code ^{5,6,7}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
EXAMINER SIGNATURE: 				DATE CONSIDERED: 3/3/5		

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	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 5 of 14	Attorney Docket Number	ULT-005-2C3C


U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2/3/known	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KOK	C049	US-4,931,623	6/5/1990	Nakamura et al.	
	C050	US-4,937,438	6/26/1990	Warwick et al.	
	C051	US-4,978,401	12/18/1990	Bonomi	
	C052	US-5,036,430	07/1991	Hills	
	C053	US-5,049,728	09/1991	Rovin	
	C054	US-5,172,282	12/1992	Ghose	
	C055	US-5,206,494	04/1993	Metzger	
	C056	US-5,227,212	07/1993	Ahlert et al.	
	C057	US-5,236,791	08/1993	Yahisa et al.	
	C058	US-5,309,388	5/3/1994	Maruyama et al.	
KOK	C059	US-5,311,003	5/10/1994	Saroya	

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Sheet	6	of	14	Attorney Docket Number	ULT-005-2C3C

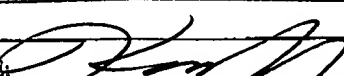
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Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KOF	C060	US-5,321,243	6/14/1994	Groves et al.	
	C061	US-5,336,871	8 10/9/1994	Colgate Jr.	
	C062	US-5,362,952	11/8/1994	Nair et al.	
	C063	US-5,396,369	3 5/7/1995	Deland Jr. et al.	
	C064	US-5,396,545	3/7/1995	Nair et al.	
	C065	US-5,397,886	3/14/1995	Mos et al.	
	C066	US-5,408,384	04/1995	Gannyo et al.	
	C067	US-5,410,136	4/25/1995	McIntire et al.	
	C068	US-5,421,618	6/6/1995	Okazaki et al.	
	C069	US-5,426,286	6/20/1995	Nair et al.	
	C070	US-5,431,746	7/11/1995	Manning et al.	
	C071	US-5,452,143	9/19/1995	Kamagami	
	C072	US-5,466,918	11/14/1995	Ray et al.	
KOF	C073	US-5,480,685	1/2/1996	Suzuki et al.	

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Examiner Initials*	Cite No. 1	Foreign Patent Document Cntry Code 3 Number 4 Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T 6

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	Filing Date		9/1/2000
	First Named Inventor:		Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.		GROUP: 2876
Sheet	7	of	14
Attorney Docket Number			ULT-005-2C3C

U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2/3/4/5/6/7	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C074	US-5,492,745	2/1996	Yokoyama	
	C075	US-5,509,083	4/16/1996	Abtahi et al.	
	C076	US-5,530,232	6/25/1996	Taylor	
	C077	US-5,535,078	7/9/1996	Warwick	
	C078	US-5,557,089	9/17/1996	Hall et al.	
	C079	US-5,559,885	9/24/1996	Drexler et al.	
	C080	US-5,588,763	12/31/1996	Nubson et al.	
	C081	US-5,598,474	1/28/1997	Johnson	
	C082	US-5,609,253	3/11/1997	Goade, Sr.	
	C083	US-5,612,526	3/18/1997	Oguchi et al.	
	C084	US-5,626,970	5/1997	Hedgcoth	
	C085	US-5,637,174	6/10/1997	Field et al.	
KDF	C086	US-5,679,942	10/21/1997	Toyama	

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Examiner Initials*	Cite No. 1	Foreign Patent Document Cntry Code 2 Number 3 Kind Code 4 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T*

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KDF	C087	US-5,679,945	10/21/1997	Renner et al.	
	C088	US-5,698,839	12/17/1997	Jagielinski	
	C089	US-5,713,406	2/3/1998	Drury	
	C090	US-5,714,747	2/3/1998	West et al.	
	C091	US-5,720,500	2/24/1998	Okazaki et al.	
	C092	US-5,723,033	3/3/1998	Weiss	
	C093	US-5,734,154	3/31/1998	Jachimowicz et al.	
	C094	US-5,738,945	4/14/1998	Lal et al.	
	C095	US-5,748,737	5/5/1998	Daggar	
	C096	US-5,756,220	5/1998	Hoshino et al.	
	C097	US-5,763,862	6/9/1998	Jachimowicz et al.	
	C098	US-5,770,942	6/23/1998	Tagchi	
KDF	C099	US-5,777,306	7/7/1998	Masuda	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet

9

of

14

Application Number

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Malcolm G. Smith, Sr.

Examiner: Frech, Karl D.

GROUP: 2876

Attorney Docket Number

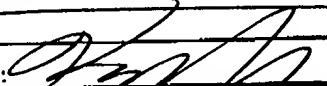
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KDF	C100	US-5,789,733	8/4/1998	Jachimowicz et al.	
	C101	US-5,825,393	10/20/1998	Koczmar et al.	
	C102	US-5,828,053	10/27/1998	Kinugasa	
	C103	US-5,834,756	11/10/1998	Gutman et al.	
	C104	US-5,843,565	12/1/1998	Davies et al.	
	C105	US-5,844,218	12/1/1998	Kawan et al.	
	C106	US-5,844,230	12/1/1998	Lalonde	
	C107	US-5,851,688	12/22/1998	Chen et al.	
	C108	US-5,852,289	12/22/1998	Masahiko	
	C109	US-5,857,079	1/5/1999	Claus et al.	
	C110	US-5,859,419	1/12/1999	Wynn	
	C111	US-5,861,220	1/19/1999	Coughlin	
KDF	C112	US-5,862,174	1/19/1999	Yokota et al.	

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PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>	Application Number	09/654,542
	Filing Date	9/1/2000
	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 10 of 14	Attorney Docket Number	ULT-005-2C3C

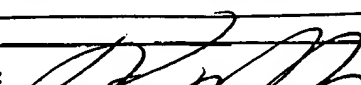
U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2a/b (optional)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C113	US-5,866,891	2/2/1999	Fujimoto et al.	
	C114	US-5,869,823	2/9/1999	Bublitz et al.	
	C115	US-5,880,445	3/9/1999	Mori et al.	
	C116	US-5,883,377	3/16/1999	Chapin, Jr.	
	C117	US-5,884,271	3/1999	Pitroda	
	C118	US-5,886,333	3/1999	Miyake	
	C119	US-5,889,273	3/1999	Goto	
	C120	US-5,895,903	4/1999	Abe et al.	
	C121	US-5,895,909	4/1999	Yoshida	
	C122	US-5,898,612	4/1999	Chen et al.	
	C123	US-5,901,012	5/1999	Ishida	
	C124	US-5,901,303	5/1999	Chew	
	C125	US-5,928,759	7/1999	Arita et al.	
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Examiner Initials*	Cite No. 1	Foreign Patent Document Entry Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER SIGNATURE: 

DATE CONSIDERED: 3/3/05

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PTO/SB/08A (08-03)

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 11 of 14	Attorney Docket Number	ULT-005-2C3C

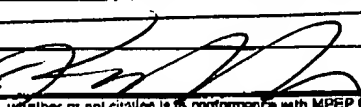
U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. 1	Document Number Number - Kind Code 2a/b	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
1602	C127	US-5,941,375	8/1999	Kamens et al.	
	C128	US-5,979,774	11/1999	Urushibata	
	C129	US-5,997,042	12/1999	Blank	
	C130	US-6,079,621	6/2000	Vardanyan et al.	
	C131	US-6,080,476	6/2000	Kanbe et al.	
	C132	US-6,116,655	9/2000	Thouin et al.	
	C133	US-6,186,398	2/2001	Kato et al.	
	C134	US-6,196,047	3/2001	Carnegie et al.	
	C135	US-6,221,508	4/2001	Kanbe et al.	
	C136	US-6,238,809	5/2001	Wu et al.	
	C137	US-6,254,713	7/2001	Riehle	
	C138	US-6,268,919	7/2001	Meeks et al.	
1502	C139	US-6,301,068	10/2001	Ionescu	

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Examiner Initials*	Cite No. 1	Foreign Patent Document Entry Code 3 Number 4 Kind Code 5 (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶

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PTO/SB/08A (08-03)

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	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 12 of 14	Attorney Docket Number	ULT-005-2C3C


U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2,3,4,5,6,7,8,9,10}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C140	US-6,311,893	11/2001	Liu et al.	
	C141	US-6,378,037	4/2002	Hall	
	C142	US-6,398,114	6/2002	Nishikawa et al.	
	C143	US-D264,853	6/1982	Scavino et al.	
	C144	US-D293,694	1/1988	Alden et al.	
	C145	US-D305,887	2/1990	Nishimura	
	C146	US-D328,457	8/1992	Matsuzaka	
	C147	US-D408,377	4/20/1999	Perchau et al.	
	C148	US-D410,769	6/1999	Dorizas	
	C149	US-D425,876	5/2000	Malers et al.	
	C150	US-D429,733	8/2000	Jones et al.	
	C151	US-D436,991	1/2001	Morgante	
	C152	US-D447,146	8/2001	Myers	
KDF	C153	US-D448,776	10/2001	Weng et al.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document Entry Code ² Number ³ Kind Code ^{4,5,6,7,8,9,10}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear	T ⁶
KDF	C154	FR 2505523	12/11/1982	Widmer MJF		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Bhushan, Bharat, *Tribology and Mechanics of Magnetic Storage Devices*, New York: Springer-Verlag, pp. 599, 629-638EXAMINER SIGNATURE: 

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	First Named Inventor:	Malcolm G. Smith, Sr.
	Examiner: Frech, Karl D.	GROUP: 2876
Sheet 13 of 14	Attorney Docket Number	ULT-005-2C3C


U.S. PATENT DOCUMENTS

Examiner Initials*	Cited No. ¹	Document Number Number - Kind Code ^{2(d) (b)(2)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines Where Relevant Passages or Figures Appear
KDF	C155	US-5,041,922	08/20/1991	Wood et al.	
	C156	US-5,055,155	10/08/1991	Crotty et al.	
	C157	US-5,101,097	03/31/1992	Conant	
	C158	US-5,147,732	09/15/1992	Shiroishi et al.	
	C159	US-5,180,640	01/19/1993	Yamashita et al.	
	C160	US-5,191,198	03/02/1993	Do	
	C161	US-5,204,513	04/20/1993	Steele	
	C162	US-5,206,489	04/27/1993	Warwick	
	C163	US-5,217,056	06/08/1993	Ritter	
	C164	US-5,221,838	06/22/1993	Gutman et al.	
	C165	US-5,254,843	10/19/1993	Hynes et al.	
	C166	US-5,270,523	12/14/1993	Chang et al.	
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1-00	C168	US-5,288,942	02/22/1994	Godfrey	
	C169	US-5,880,454	03/09/1999	Monicault	
	C170	US-5,621,583	04/15/1997	Parks et al.	
	C171	US-5,739,975	04/14/1998	Parks et al.	
	C172	US-6,430,114	08/06/2002	Wang et al.	
1-00	C173	US-6,667,105	01/13/2004	Wang et al.	

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EXAMINER SIGNATURE: <i>[Signature]</i>	DATE CONSIDERED: 3/3/05
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